

FIG. 1

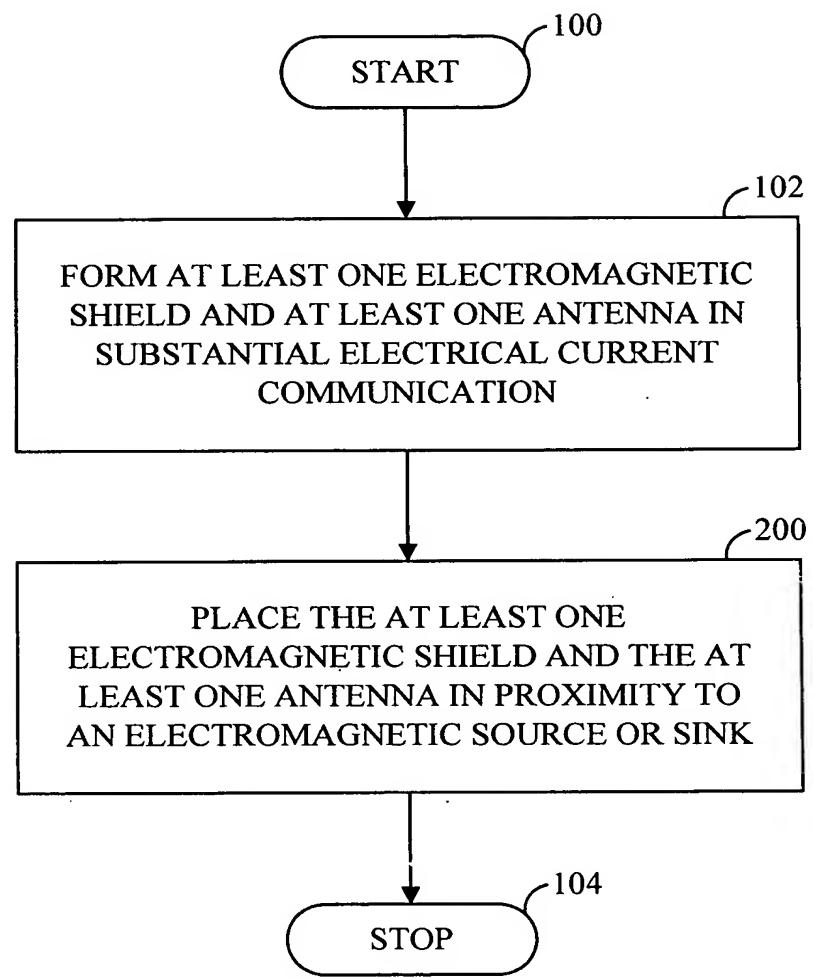


FIG. 2

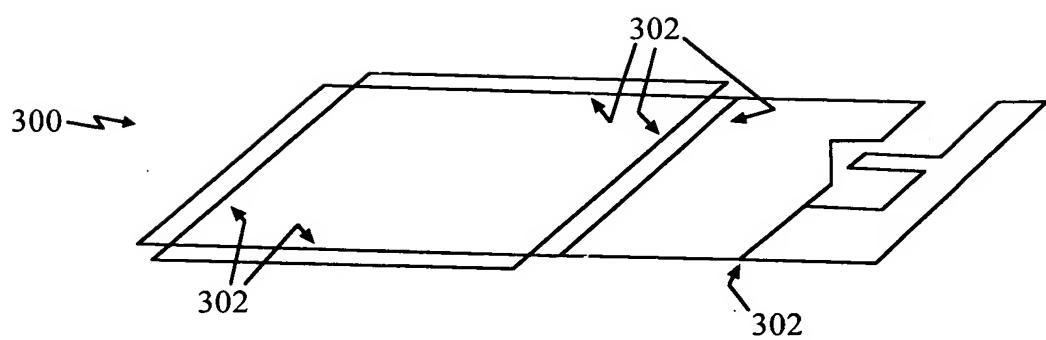


FIG. 3A

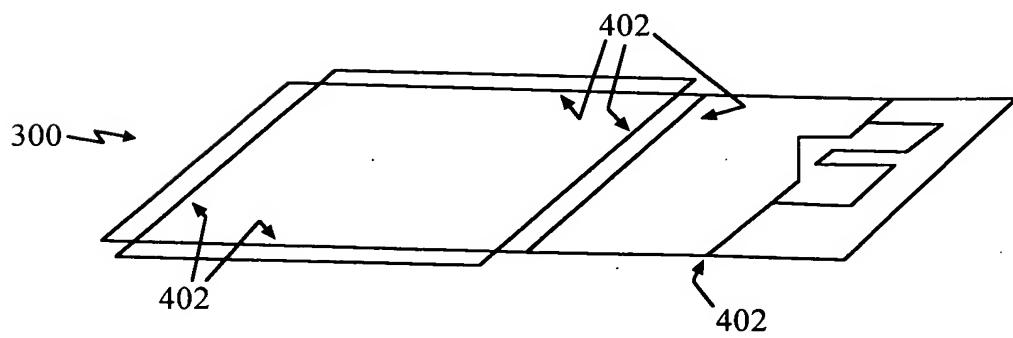


FIG. 4A

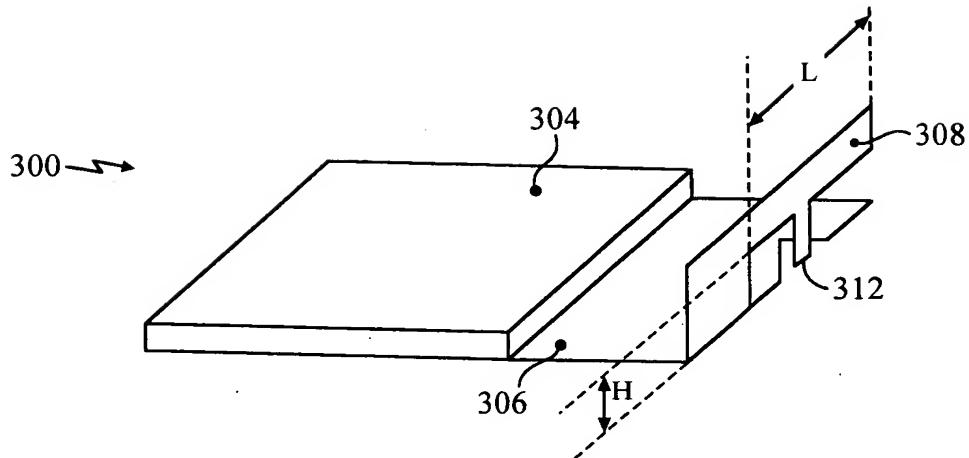


FIG. 3B

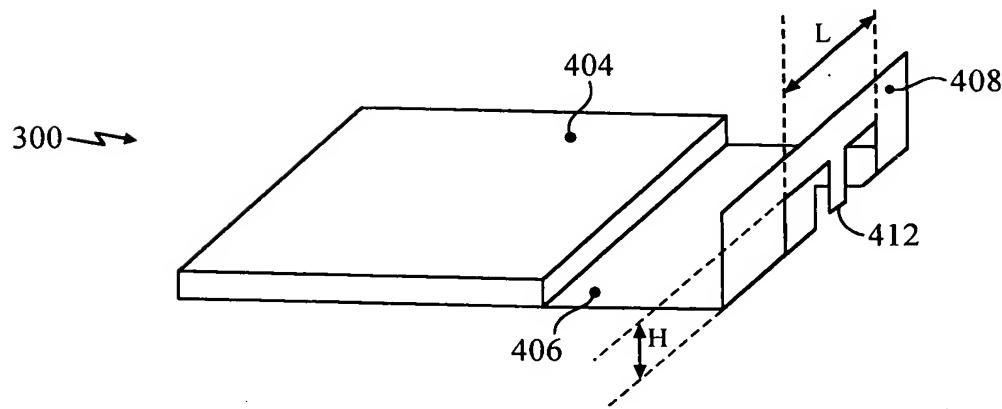


FIG. 4B

FIG. 3C

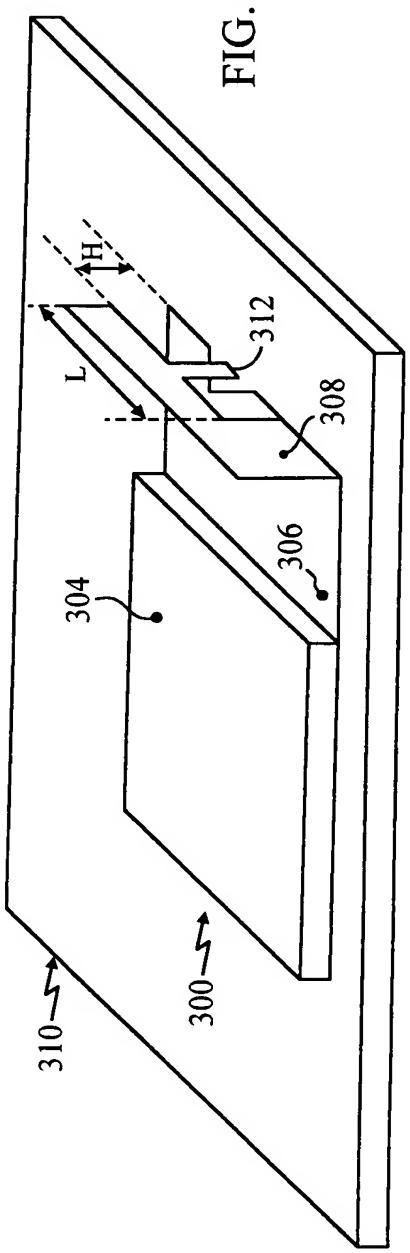


FIG. 4C

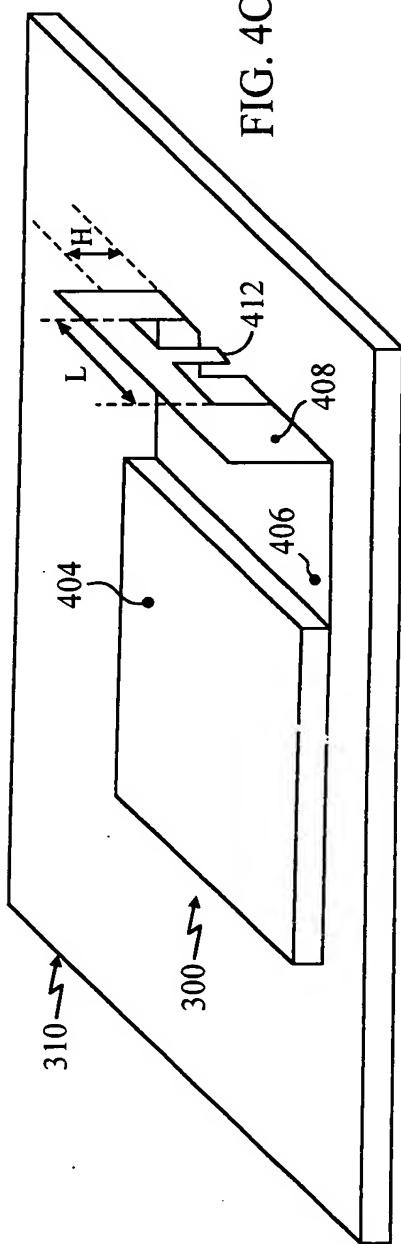


FIG. 5A

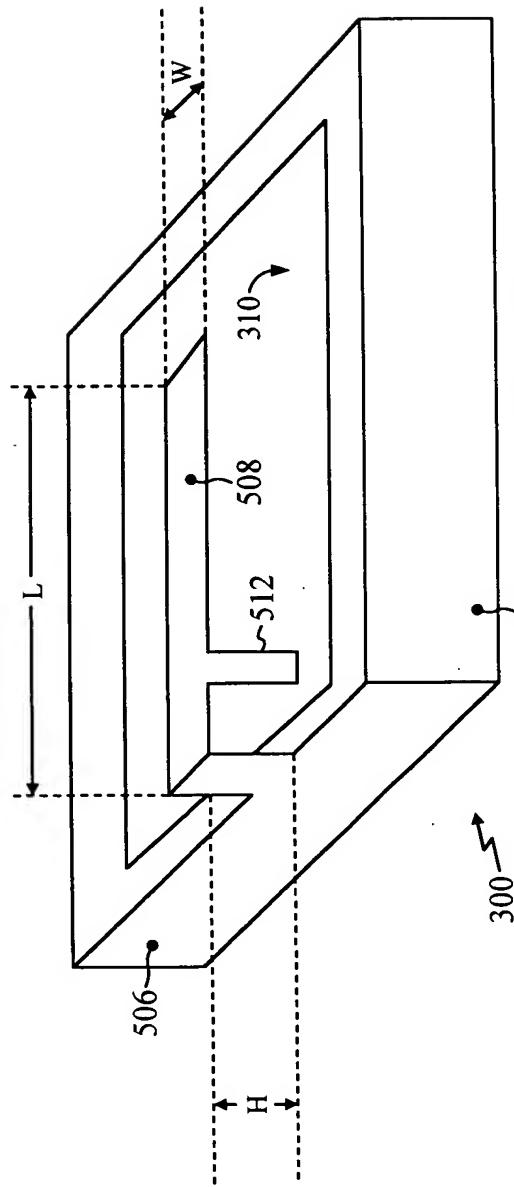
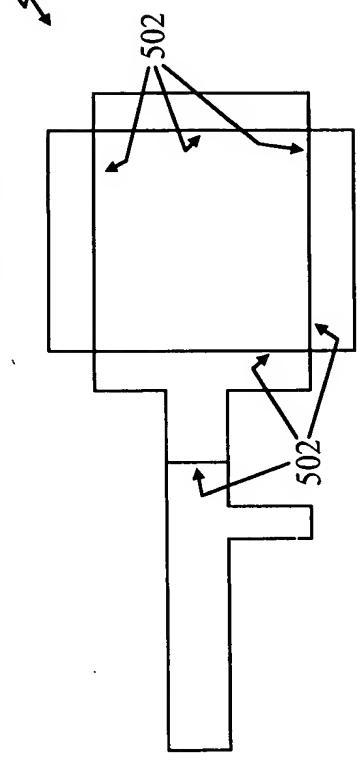


FIG. 5B

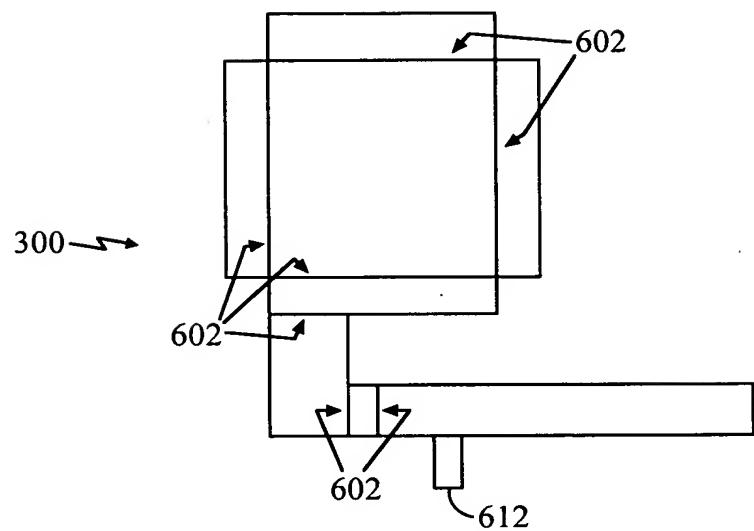


FIG. 6A

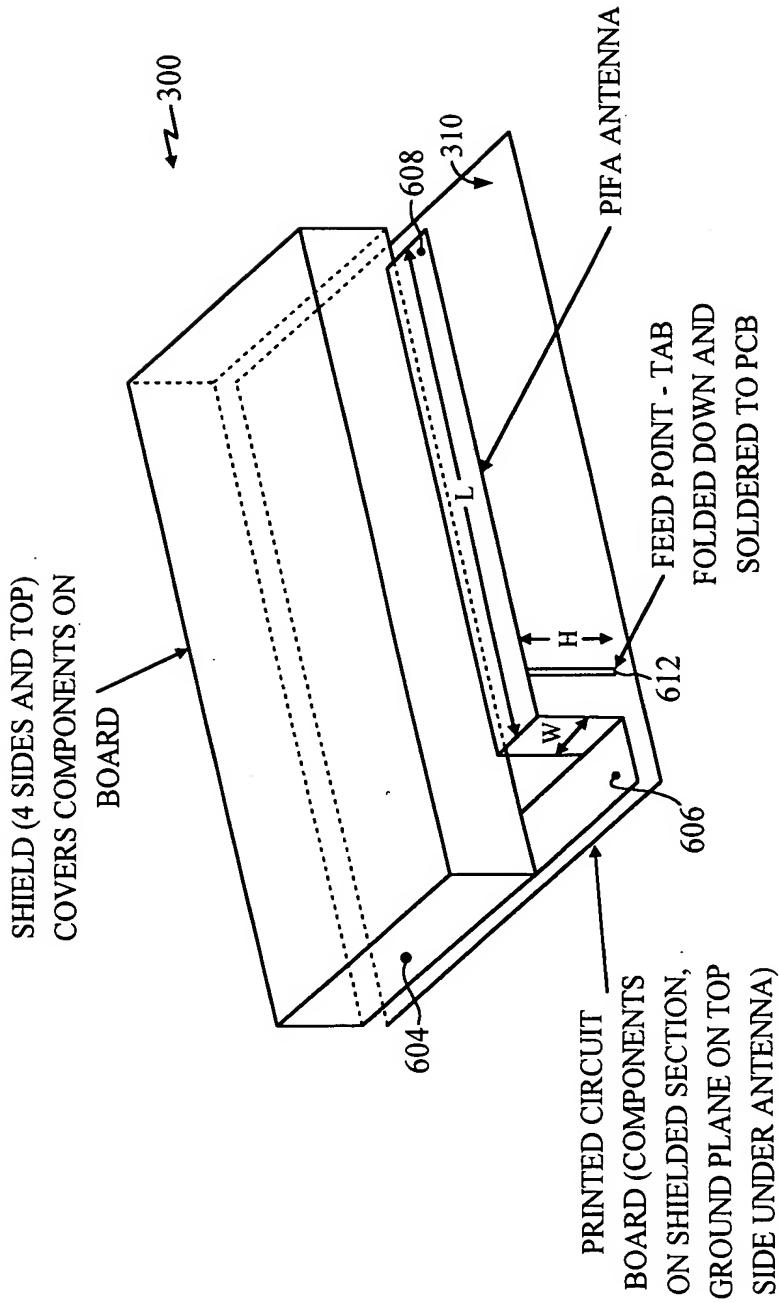


FIG. 6B

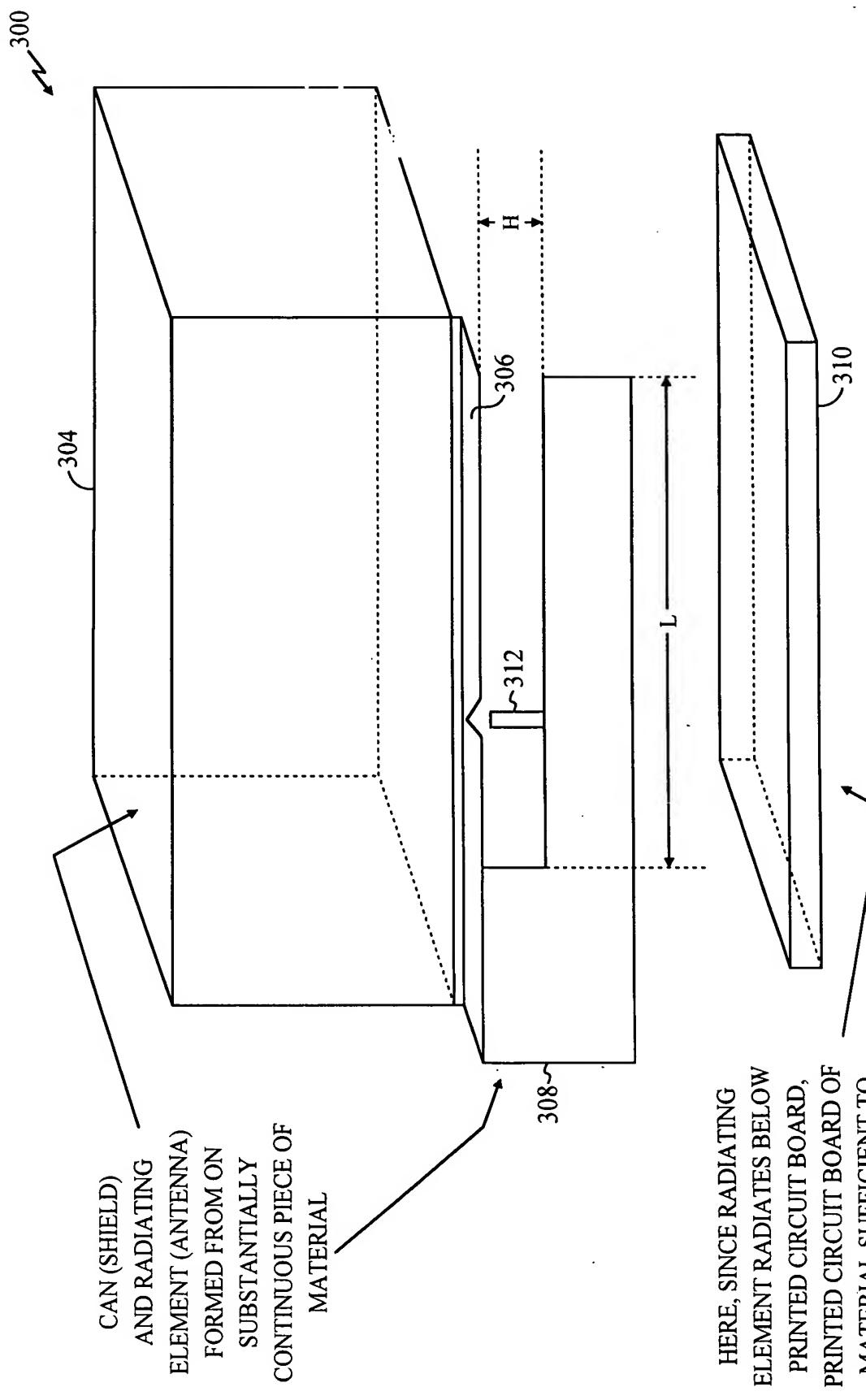
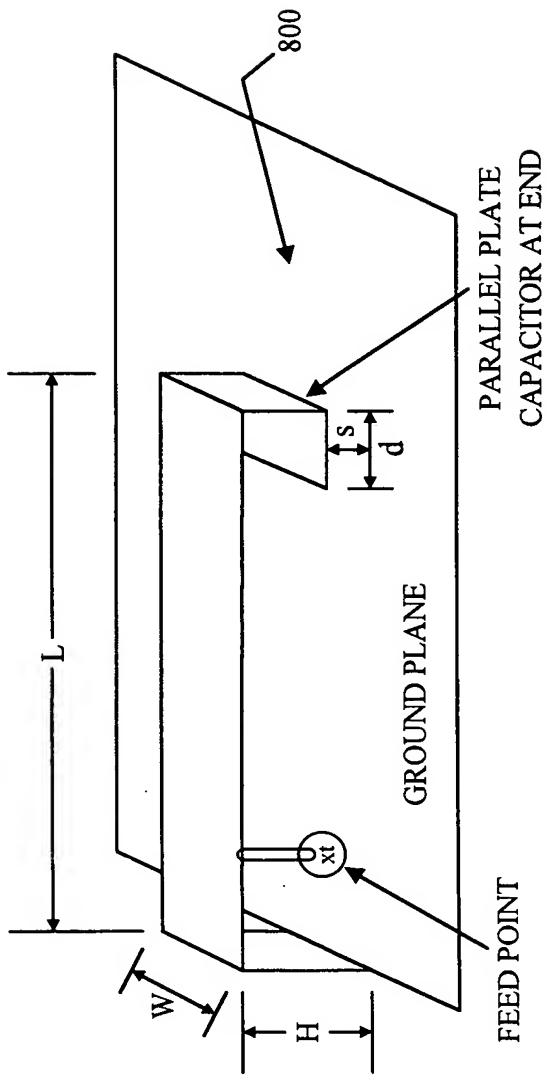


FIG. 7

PIFA WITH INTEGRAL CAPACITOR AT OPEN END



FREQUENCY DETERMINED PRIMARILY BY L AND CAPACITANCE
CAPACITANCE DETERMINED BY AREA $W \times d$ AND HEIGHT ABOVE GROUND s
BANDWIDTH AND EFFICIENCY INFLUENCED BY L, W, AND H

FIG. 8